

O'Brien 12

IN THE CLAIMS:

1. - 10. *cancelled*

11. *(currently amended)* A method of producing a stepped etalon having transition regions between steps that are not ~~parallel~~ perpendicular to an opposing side comprising the steps of:

providing an etalon body which is transparent at least in a first range of wavelengths and having first and second opposing sides, said first side having a plurality of steps, each step being parallel to the second, opposing side with adjacent steps separated by a generally abrupt transition region; and

further processing the etalon body first side to make each abrupt transition region on said first side non-perpendicular to the opposing second side to reduce diffraction of light in each transition region and reduce the dead spot behind each transition region.

12. *(original)* The method of claim 11 wherein the step of further processing comprises the step of chemically etching the first side of the etalon.

13. - 17. *cancelled*

18. *(previously presented)* A method of producing a stepped etalon as defined in claim 11 wherein the step of further processing comprises the step of

etching said first side in the abrupt transition regions at an angle of less than 90° to produce non-perpendicular step transitions.

19. *(previously presented)* The method of claim 11 wherein the step of further processing comprises the steps of:

depositing a masking material over a first portion of said first side while leaving a second portion of said first side exposed;

applying a directional abrasive etching beam to said first side at an angle less than ninety degrees relative to said first side for a predetermined amount of time; and

removing said masking material.